

S.D.E.

**M.B.A. (I.T.) SEM-III (2013 COURSE) : WINTER - 2017**  
**SUBJECT: PROGRAMMING WITH C++**

**Day: Wednesday**  
**Date: 20/12/2017**

**Time: 10.00 A.M. TO 1.00 P.M.**  
**Max. Marks: 70**

**W-2017-4333**

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**N.B:**

- 1) Attempt **ANY FOUR** questions from Section-I and **ANY TWO** questions from Section-II.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Answer to both the sections should be written in the **SEPARATE** answer book.
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**SECTION-I**

- Q.1** How Object Oriented approach is used in analysis and design of a system? (10)  
Explain various features of Object Oriented approach.
- Q.2** What is an overloaded function? How to pass an address of an overloaded function as an argument to another functions? (10)
- Q.3** Differentiate between the following: (10)
- a) Structure Vs Class
  - b) Friend function Vs static function
- Q.4** What is the purpose of a friend function? Explain advantages and disadvantages of using friend function. (10)
- Q.5** Write short notes on **ANY TWO** of the following: (10)
- a) Virtual function
  - b) Abstract Data Type (ADT)
  - c) Copy constructor

**SECTION-II**

- Q.6** Explain with the help of a single program the concept of objects as parameters, friend function, constructors and destructors. (15)
- Q.7** What is inheritance? Write a program to illustrate the concept of multiple inheritance. (15)
- Q.8** Write a program to read and write into a file. (15)

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